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	Docket No.: PBLI-P05-005 This is a continuation of U.S. Serial No.: 08/489,071 filed 6/9/95 Title: Modified Interferons Atty: William G. Gosz ATGGCCTTG	9
	Reg. No. 27,787 MetAlaLeu -23	
	TCCTTTTCTTTACTGATGGTCGTGCTGGTACTCAGCTACAAATCCATCTGCTCTCTGGGC SerPheSerLeuLeuMetValValLeuValLeuSerTyrLysSerIleCysSerLeuGly -20 -10 -1	69
70	TGTGATCTGCCTCAGACCCACAGCCTGCGTAATAGGAGGGCCTTGATACTCCTGGCACAA CysAspLeuProGlnThrHisSerLeuArgAsnArgArgAlaLeuIleLeuLeuAlaGln 1 10 20	129
130	ATGGGAAGAATCTCTCCTTCTCCTGCTTGAAGGACAGACA	189
190	GAGGAGTTTGATGGCCACCAGTTCCAGAAGACTCAAGCCATCTCTGTCCTCCATGAGATGGluGluPheAspGlyHisGlnPheGlnLysThrGlnAlaIleSerValLeuHisGluMet 50 60	249
250	ATCCAGCAGACCTTCAATCTCTTCAGCACAGAGGACTCATCTGCTGCTTGGGAACAGAGC IleGlnGlnThrPheAsnLeuPheSerThrGluAspSerSerAlaAlaTrpGluGlnSer 70 80	309
310	CTCCTAGAAAAATTTTCCACTGAACTTTAC <u>CAGCAACTG</u> AATGACCTGGAAGCATGTGTG LeuLeuGluLysPheSerThrGluLeuTyrGlnGlnLeuAsnAspLeuGluAlaCysVal 90 100	369
370	ATACAGGAGGTTGGGGTGGAAGAGACTCCCCTGATGAATGA	429
430	AGGAAATACTTCCAAAGAATCACTCTTTATCTAACAGAGAAGAAATACAGCCCTTGTGCC ArgLysTyrPheGlnArgIleThrLeuTyrLeuThrGluLysLysTyrSerProCysAla 130	489
490	TGGGAGGTTGTCAGAGCAGAAATCATGAGATCCCTCTCGTTTTCAACAAACTTGCAAAAA TrpGluValValArgAlaGluIleMetArgSerLeuSerPheSerThrAsnLeuGlnLys 150	549
550	AGATTAAGGAGGATTGA 570 ArgLeuArgArgLysAspEnd 166	

Fig. 1. Nucleotide and Amino Acid Sequence of Hu-IFN- α 001. The location of the *Alw*NI site is underlined. The signal peptide is shown as the 23 amino acids labeled -1 to -23.

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1 MALSFSLLMVVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF 50
1 MARSFSLLMVVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF 50
51 SCLKDRHEFRFPEEEFDGHQFQKTQAISVLHEMIQQTFNLFSTEDSSAAW 100
51 SCLKDRHEFRFPEEEFDGHQFQKTQAISVLHEMIQQTFNLFSTEDSSAAW 100
101 EQSLLEKFSTELYQQLNDLEACVIQEVGVEETPLMNEDSILAVRKYFQRI 150
101 EQSLLEKFSTELYQQLNDLEACVIQEVGVEETPLMNEDFILAVRKYFQRI 150
151 TLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD 189

Fig. 2. Comparison of the Protein Sequence of Hu-IFN- α 001 with that of Hu-IFN- α J. The signal peptide represents the first 23 amino acids at the amino terminus.

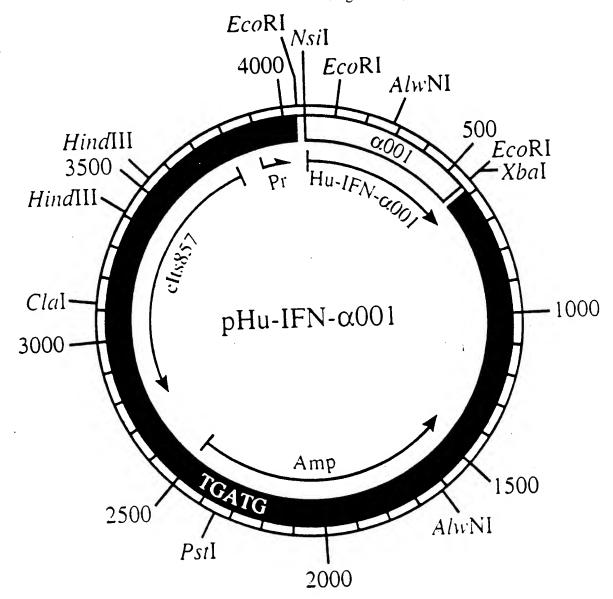
151 TLYLMEKKYSPCAWEVVRAEIMRSFSFSTNLKKGLRRKD 189

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FIG. 3. Expression vector for Hu-IFN-α001. The structure of the plasmid pHu-IFN-a001 is shown. The Nvil site represents nucleotide position =1. The P_R promoter drives expression of Hu-IFN-a001.

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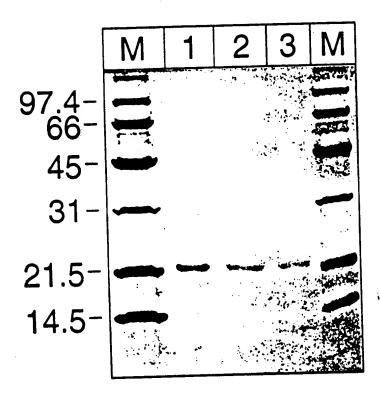


Fig. 4. SDS-Polyacrylamide Gel Electrophoresis of the Purified Hu-IFN- α 001. Hu-IFN- α 001 was placed in lanes 1, 2 and 3 in amounts of 3 μ g, 1.5 μ g and 0.75 μ g, respectively. The columns labeled M represent the molecular weight markers with the values in kilodaltons given to the left of each respective molecular weight marker.